

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A process Process for operating a climate control system in the passenger compartment of a motor vehicle, wherein comprising:

operating the climate control system ~~can be operated~~ in a recirculation mode in which internal air is recirculated within the passenger compartment or in a fresh air mode in which at least a portion of air supplied to the passenger compartment is fresh air, and wherein

operating the climate control system ~~is normally operated~~ in the recirculation mode, ~~thereby characterized,~~ ~~that~~ wherein

the climate control system (12) is switched into the fresh air mode upon exceeding a predetermined CO₂-threshold value measured in the passenger compartment (2) of the motor vehicle (1).

2. (currently amended) The process Process according to Claim 1, ~~thereby characterized, that~~ wherein in response to the opening of an ashtray (9, 11) located within the passenger compartment (2) of the motor vehicle (1) the climate control (12) is automatically switched into the fresh air mode.

3. (currently amended) The process according to Claim 1 ~~or 2~~, thereby characterized, that wherein the climate control system (12) is operated with CO₂ as coolant.
4. (currently amended) The process according to Claim 1, 2 ~~or 3~~, thereby characterized, that wherein the CO₂-threshold level is set at 800 ppm.
5. (currently amended) The process according to Claim 1 ~~one of Claims 1 through 4~~, thereby characterized, that wherein upon switching into the fresh air mode the fresh air is supplied to the foot space (20) of the motor vehicle (1).
6. (currently amended) A climate Climate control system for a motor vehicle, which is switchable between a recirculation mode, in which wherein
a internal air is recirculated within the passenger compartment of the motor vehicle, and a fresh air mode,
in which at least a portion of air supplied to the passenger compartment is fresh air, and
which includes a compressor, an evaporator and a control device, thereby characterized, that wherein at least one CO₂-sensor (26) is provided in the passenger compartment (2) of the motor vehicle (1), which CO₂-sensor (26), upon detecting a CO₂ level exceeding a CO₂-threshold value in the passenger compartment (2) of the motor

vehicle (1), provides a signal to the control device (25) for switching the climate control system (12) from recirculation mode to fresh air mode.

7. (currently amended) The climate Climate control system according to Claim 6, ~~thereby characterized, that wherein~~ the CO₂-sensor (26) is located in the foot space (20) of the motor vehicle (1).
8. (currently amended) The climate Climate control system according to Claim 6 ~~or 7~~, ~~thereby characterized, that~~ wherein in the inner space (2) of the motor vehicle (1) at least one sensor (27, 28) is provided, with which it can be detected whether smoking is occurring within the passenger compartment (2) of the motor vehicle (1).
9. (currently amended) The climate Climate control system according to Claim 8, ~~thereby characterized, that wherein~~ the at least one sensor (26, 27) is so designed that it detects the opening of an ashtray (9, 11).
10. (currently amended) The climate Climate control system according to ~~Claim 6 one of Claims 6 through 9~~, ~~thereby characterized, that wherein~~ the control device (25) is in operative association with an adjustment device or actuator (24), which is provided for adjusting a control

element (25) between recirculation mode and fresh air mode.

11. (currently amended) The climate Climate control system according to Claim 6 ~~one of Claims 6 through 10, thereby characterized, that wherein~~ CO₂ is provided as coolant for the evaporator (24).
12. (currently amended) The climate Climate control system according to Claim 6 ~~one of Claims 6 through 11, thereby characterized, that wherein~~ the evaporator (14) is provided with an expansion valve (29) for switching off of the evaporator (14).
13. (currently amended) The climate Climate control system according to Claim 6 ~~one of Claims 6 through 12, thereby characterized, that wherein~~ on the vacuum side the compressor (31) is provided with a valve (33) for switching off of the compressor (31) (14).